

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°10'37", long 74°35'56" referenced to North American Datum of 1983, Allentown Borough, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Millpond dam.

DRAINAGE AREA.--17.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements, water years 1968-95. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft³/s
Nov 6, 2007	7.46
Feb 11, 2008	16.4
May 5, 2008	13.1
Aug 12, 2008	3.47

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 20.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 06...	1010	7.5	15	.165	.134	753	10.6	95	7.7	244	8.0	10.7	60
Feb 11...	1130	16	16	.072	.056	763	14.0	103	6.7	217	-3.0	2.4	58
May 05...	1150	13	19	.124	.097	763	8.9	92	6.8	223	22.0	16.8	60
Aug 12...	1110	3.5	16	.153	.120	755	4.8	54	6.9	245	26.0	21.1	59

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 06...	14.9	5.44	4.96	14.3	27	33.1	.23	9.8	21.7	125	146	6	1.4
Feb 11...	14.2	5.44	3.83	13.7	17	30.1	.14	8.4	24.1	116	113	7	.89
May 05...	14.8	5.71	3.23	15.4	25	33.0	.23	5.7	20.0	E116	155	35	.96
Aug 12...	15.0	5.30	4.68	16.3	25	34.3	.22	8.0	18.2	E122	150	10	2.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 06...	1.03	.66	.09	2.0	2.1	.012	.015	.073	.7	<.04	.7	4.0	33
Feb 11...	.648	1.21	.15	2.1	2.2	.045	.012	.070	1.2	<.04	1.2	2.6	25
May 05...	.607	.51	.16	1.5	1.6	E.004	.013	.208	1.3	<.04	1.3	3.6	25
Aug 12...	1.75	.54	.29	2.7	3.0	E.006	.018	.093	1.7	<.04	1.7	5.2	41